Wildfire Analyst
Fort Collins, Colorado

Center for Environmental Management
MILITARY LANDS
Colorado State University

Position
A Wildfire Analyst position (Research Associate II Special) is available with the Center for Environmental Management of Military Lands (CEMML). This position is located at Colorado State University in Fort Collins, Colorado.

Our Organization
CEMML was established in 1992 with the goal of making the latest and most appropriate science available for the sustainable management of natural and cultural resources on Department of Defense and other public lands. We are a nonprofit service, outreach, and applied research unit within the CSU Warner College of Natural Resources, and provide services to our Sponsors through the combined efforts of on-campus staff and our employees located at federal work sites around the U.S. and internationally.

Location
Work will be on-site in the city of Fort Collins, population 130,000, which has at various times received recognition as "Best Places to Live" (*Money* magazine), "Best Places for Business and Career" (*Forbes* magazine), one of "18 Perfect Towns" (*Outside* magazine) and "100 Affordable Communities/Best Places to Raise Your Family" (*Frommer's*). In addition, Fort Collins has excellent schools, a thriving art scene, eclectic shops and restaurants, hundreds of miles of walking and biking paths, over 300 days of sunshine each year, ready access to Denver's six professional sports teams, and a wide range of summer and winter outdoor activities.

Responsibilities
The Wildfire Analyst will perform as part of a team of wildfire, GIS, and computer programming specialists developing high resolution risk analyses for military installations throughout the United States. The Wildfire Analyst will be required to lead teams of three to five personnel on week long excursions to military installations to collect and/or quality control data used in risk analyses. Farsite simulations are the foundation of the analyses, and the primary goal of the installation visits is to provide quality control for LANDFIRE fuels and canopy data or to create it from scratch. The Wildfire Analyst will be responsible for coordinating logistics with the installation, coordinating travel among the field team who will be coming from multiple locations and agencies, assessing the overall quality of the LANDFIRE data at the installation and making the decision whether to provide quality control for the LANDFIRE data or create fuels and canopy data from scratch, collect wildland urban interface data, collect land use related ignition data, collect fire history data, and ascertain protection priorities as defined by the installation.

The Wildfire Analyst will be responsible for data development, quality control, and transfer into the fire analysis system; running the fire simulation software; post-simulation processing; and analysis of results including measures of burn probability, fire behavior characteristics, difficulty of control, and relationships between ignition sources and fire outcomes. The Wildfire Analyst will manage most aspects of the day to day work required to produce the risk analysis for each installation assigned and will supervise the work of one to five hourly and salaried CEMML employees. The Wildfire Analyst may be tasked with additional duties such as writing fire management plans, custom fuel modeling, weather analysis, and other tasks as appropriate to the successful candidate's particular skill set and as assigned by the CEMML Wildland Fire Program Manager.

There are opportunities for the Wildfire Analyst to pursue funding for their own projects, whether these are management or research oriented, with the approval of the CEMML Wildland Fire Program Manager.

Physical Requirements
The successful candidate must be able to walk over uneven terrain while carrying up to 20 pounds and work in inclement weather.

Minimum Qualifications
The successful candidate must demonstrate U.S. employment eligibility; CEMML will not provide visa sponsorship for this position. The successful candidate must have or be able to obtain a valid driving license.

A B.S. in natural resource management or a closely related field is required. A minimum of 3 years professional experience in wildland fire, natural resources, or a closely related field is required. Strong geographic information systems (GIS) skills are required, including simple mapping and editing of spatial data, both raster and vector.

The successful candidate must have at least one of the following:

- Fireline experience in multiple fuel types that result in a thorough understanding of how fire behaves in each fuel type.
- Field experience identifying fire behavior fuel models (e.g. Scott and Burgan's 40 standard fire behavior fuel models and/or the original 13).
- Training or experience as a Long Term Fire Behavior Analyst (LTAN) or Fire Behavior Analyst (FBAN) or demonstrated experience utilizing similar skills.
- Fuels mitigation planning or prescribed burn planning experience that requires a thorough understanding of fire behavior.

Desirable Qualifications
The desired candidate will have a graduate degree in any science related field and five or more years of professional experience. Fireline experience in any capacity on wild or prescribed fires is especially valuable, the more the better. The desired candidate will have advanced GIS skills (e.g. scripting, remote sensing) as well as experience with one or more of the following programs: Farsite, FlamMap, BehavePlus, Fire Family Plus, Excel or database applications (e.g. Access or similar). The desired candidate should have experience in fire management and/or using LANDFIRE data and/or experience collecting or analyzing forestry or fire data. The desired candidate will have excellent communication and computer skills, demonstrated ability to work with large datasets, and demonstrated ability to work amicably as part of a group/team. Supervisory/leadership experience along with the ability to work independently is highly beneficial.

Background Check
Colorado State University is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final candidates being considered for employment. Background checks may include, but are not limited to, criminal history, national sex offender search and motor vehicle history.

Salary and Benefits
Salary is commensurate with experience and qualifications. Range $55,000 to $65,000 depending on qualifications. Higher rates are negotiable for very highly qualified candidates. Colorado State University offers a generous benefits package including 24 days of paid vacation leave, tuition credits, excellent health insurance (including vision and dental), and retirement plans with 11% matching.   For more information on Administrative Professional benefits, visit http://www.hrs.colostate.edu/benefits/. Additionally, CEMML provides professional development and training opportunities for employees.

Application

Prospective candidates should apply online at https://warnercnr.colostate.edu/jobs/. Applicants must meet the minimum qualifications in the announcement to be considered. Apply no later than September 13, 2015 for full consideration. Upload each of the items below individually as a Word Document (.doc), PDF (.pdf), or Rich Text Format (.rtf). Please note that incomplete applications cannot be considered. Please remove social security numbers and birthdates from application materials. A complete application consists of:

1) Statement of Qualifications (<u>one</u> page letter addressing each qualification described in announcement)
2) Resume
3) Degree Conferral (copy of diploma)
4) References (contact information for professional references, including at least one supervisor) References will not be contacted without prior notification of candidates.

Colorado State University does not discriminate on the basis of race, age, color, religion, national origin or ancestry, sex, gender, disability, veteran status, genetic information, sexual orientation, or gender identity or expression. Colorado State University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce, and complies with all federal and Colorado state laws, regulations, and executive orders regarding non-discrimination and affirmative action. The Office of Equal Opportunity is located in 101 Student Services.

Reflecting departmental and institutional values, candidates are expected to have the ability to advance the Department's commitment to diversity and inclusion.

See a complete listing of open CEMML positions at http://www.cemml.colostate.edu.

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